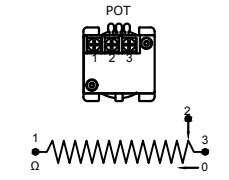


20 HP
AHU FAN MOTOR
24 FLA
1765 RPM



LEGEND

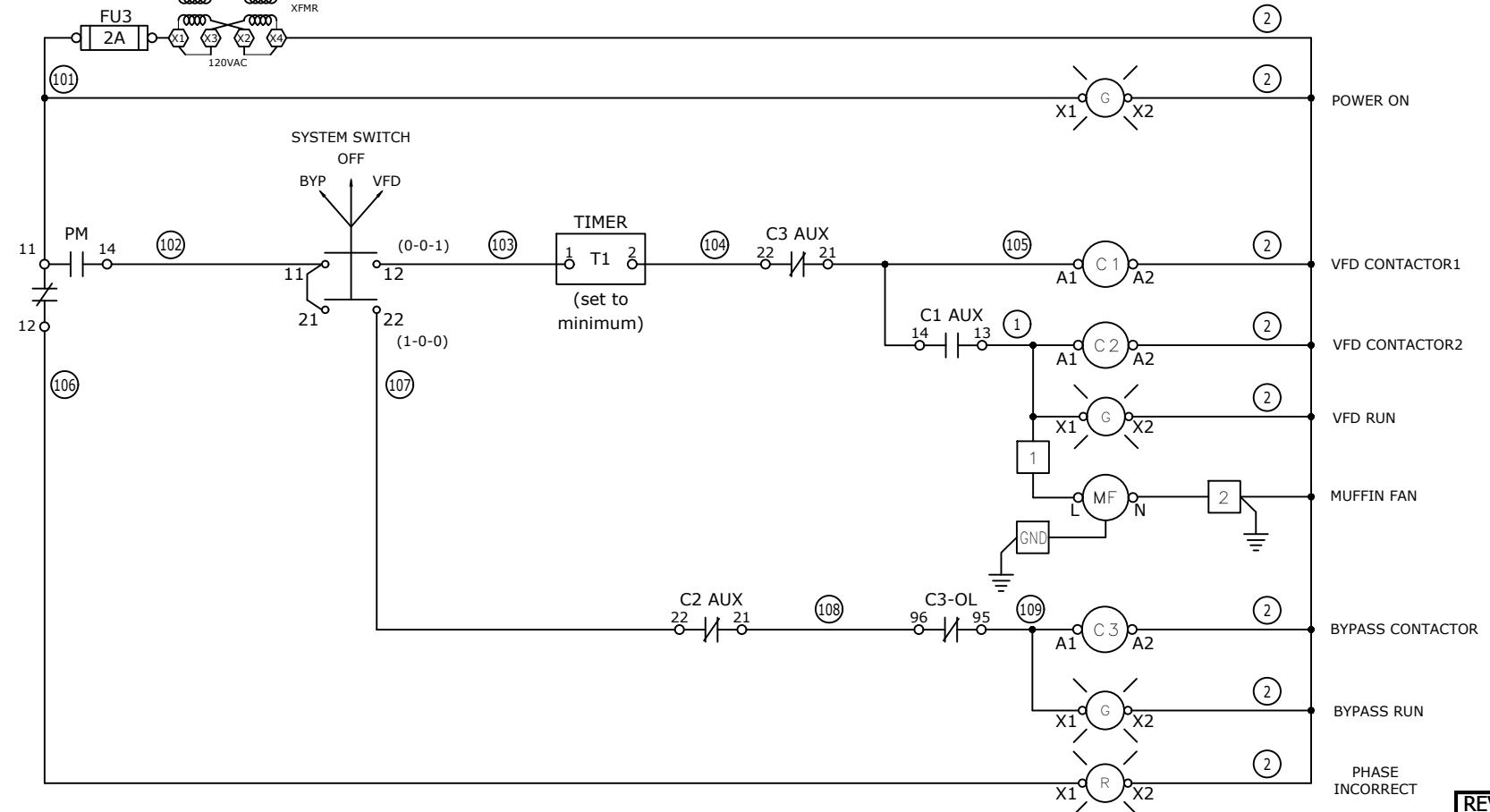
- C1 - VFD CONTACTOR
- C2 - VFD CONTACTOR 2
- C3 - BYPASS CONTACTOR
- CB - CIRCUIT BREAKER
- FU - FUSE
- MF - MUFFIN FAN
- OL - OVERLOAD
- PM - PHASE MONITOR
- T1 - TIMER
- XFMR - CONTROL CIRCUIT TRANSFORMER
- VFD - VARIABLE FREQUENCY DRIVE

WIRING NOTES

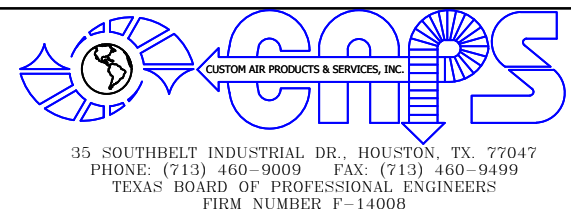
- | | | |
|-----------------|------------------|----------------------|
| 208/120VAC | 480/277VAC | 24VDC |
| PHASE A - BLACK | PHASE A - BROWN | POSITIVE - DARK BLUE |
| PHASE B - RED | PHASE B - ORANGE | NEGATIVE - GRAY |
| PHASE C - BLUE | PHASE C - YELLOW | |
| NEUTRAL - WHITE | NEUTRAL - GRAY | 24VAC |
| GROUND - GREEN | GROUND - GREEN | PHASE A - RED |
| | | NEUTRAL - BROWN |

INTRINSICALLY SAFE WIRING 18AWG LIGHT BLUE AND MUST BE SEPARATED FROM OTHER WIRING BY MINIMUM OF 2". IF CABLE USED IT MUST BE SHIELDED.

IF VAC WIRING GAUGE NOT SPECIFIED USE 18 AWG
IF VDC WIRING GAUGE NOT SPECIFIED USE 18 AWG



REV#	DATE	DESIGNER	DESCRIPTION
0	12/12/2017	TRUNG TRAN	ISSUE FOR CONSTRUCTION
1	04/27/2018	B. LANDRY	AS-BUILT



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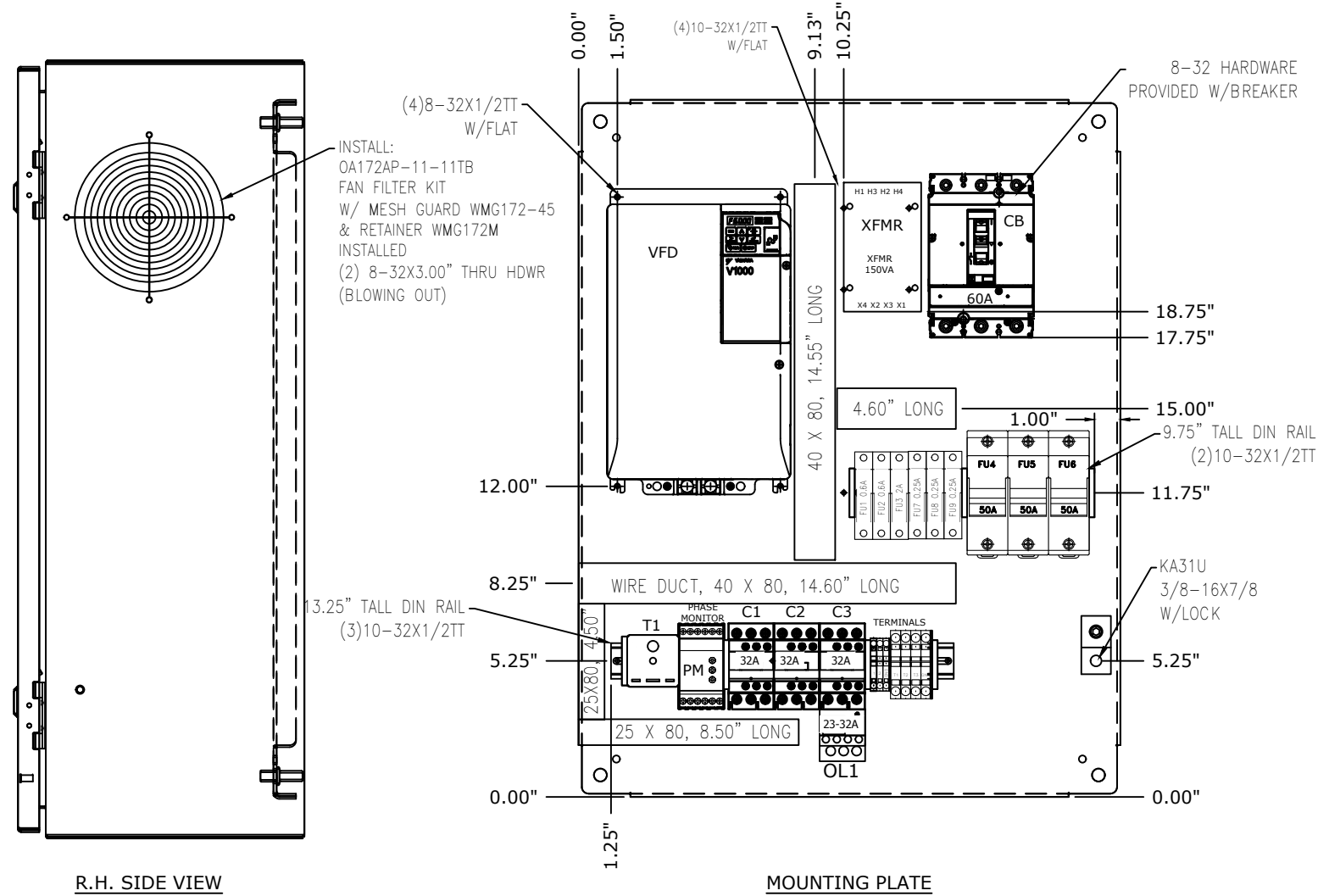
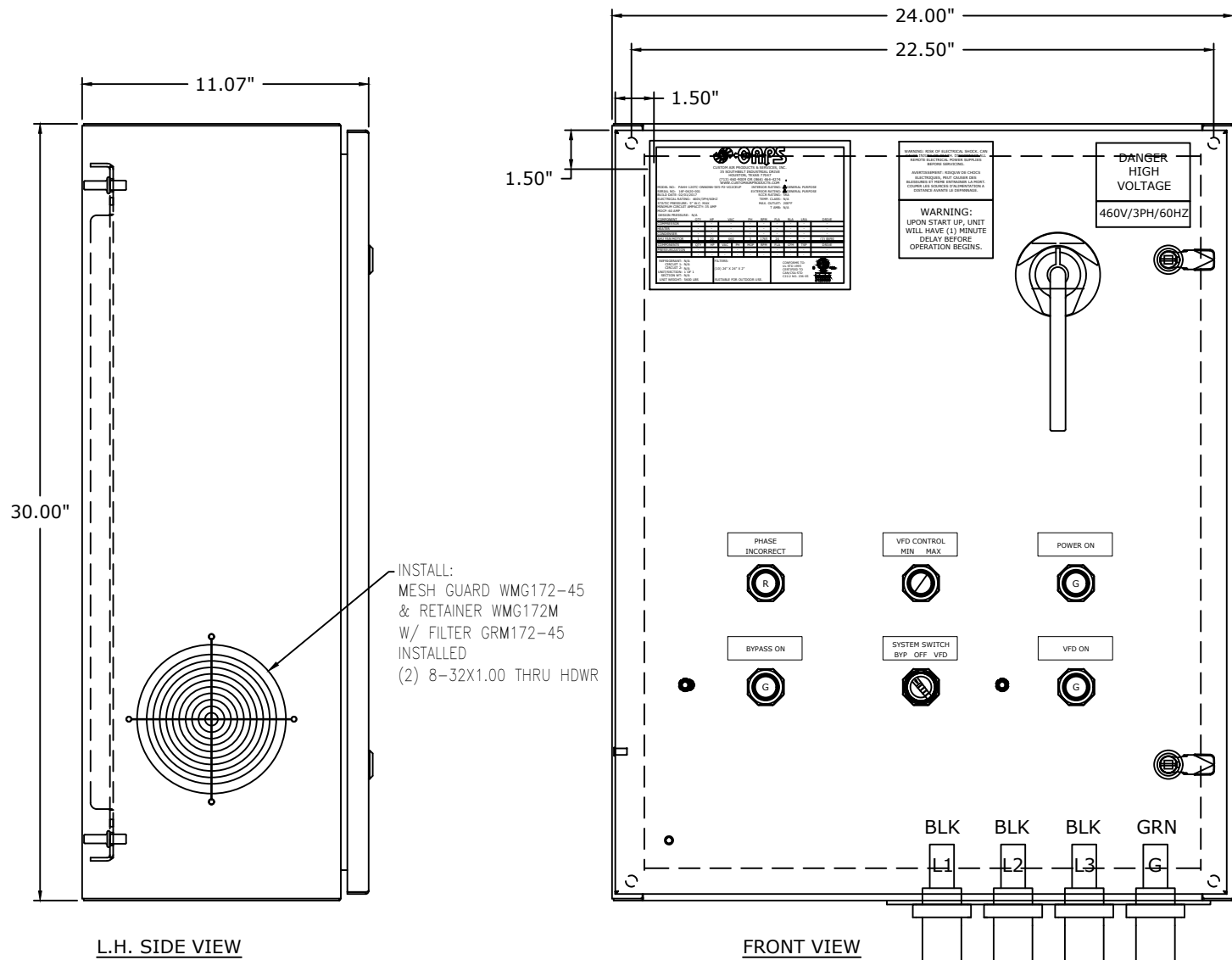
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CAPS NO.: 17F-0871	DRAWING: AE1	DRAWN BY: TRUNG TRAN	DATE: 12/12/2017
CUST. PO#:	SHEET: 1 OF 4	CHECKED BY: DAVID NGUYEN	DATE: 04/27/2018
SIZE: B	REV: 1	APPROVED BY: LARRY NOVAK	DATE: 04/27/2018

CUSTOMER: **HERC RENTALS**

**120 TON CHILLED WATER AIR HANDLER UNIT
GALV SKID, GALV CAGE, COATED HOUSING
DUCTED RETURN, 460V/3Ø/60Hz, NEMA 4 CONSTRUCTION
ELECTRICAL DESIGN
ELECTRICAL WIRING DIAGRAM**



L.H. SIDE VIEW

FRONT VIEW

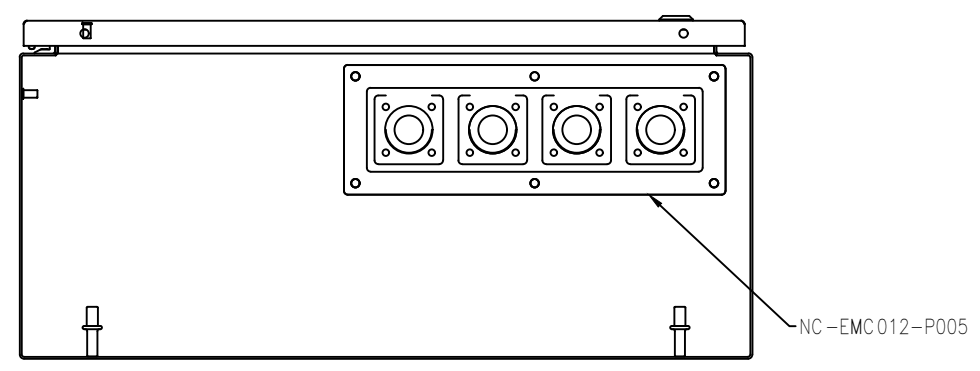
R.H. SIDE VIEW

MOUNTING PLATE

LEGEND

C1	- VFD CONTACTOR
C2	- VFD CONTACTOR 2
C3	- BYPASS CONTACTOR
CB	- CIRCUIT BREAKER
FU	- FUSE
MF	- MUFFIN FAN
OL	- OVERLOAD
PM	- PHASE MONITOR
T1	- TIMER
XFMR	- CONTROL CIRCUIT TRANSFORMER
VFD	- VARIABLE FREQUENCY DRIVE

- NOTES:
1. TERMINAL MARKER FOR TERMINALS MARKED "SP" WILL BE BLANK.
 2. EACH DEVICE TO HAVE (2) LABELS. ONE ON DEVICE, ONE ON PANEL BEHIND DEVICE.
 3. ALL DIN RAIL AND WIRE DUCT MOUNTED WITH 10-32X1/2 TT

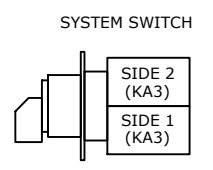


BOTTOM VIEW

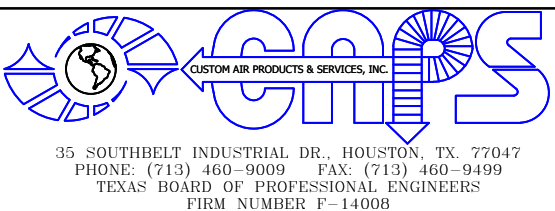
TERMINAL BLOCK CHART

TERMINAL	P/N
END STOP	3022276
1	2004-1201
2	2004-1207
GND	2004-1207
END SECTION	2004-1291
T1-T3	2010-1201
GND	2010-1207
END SECTION	2010-1291
END STOP	3022276

TERMINAL DETAIL



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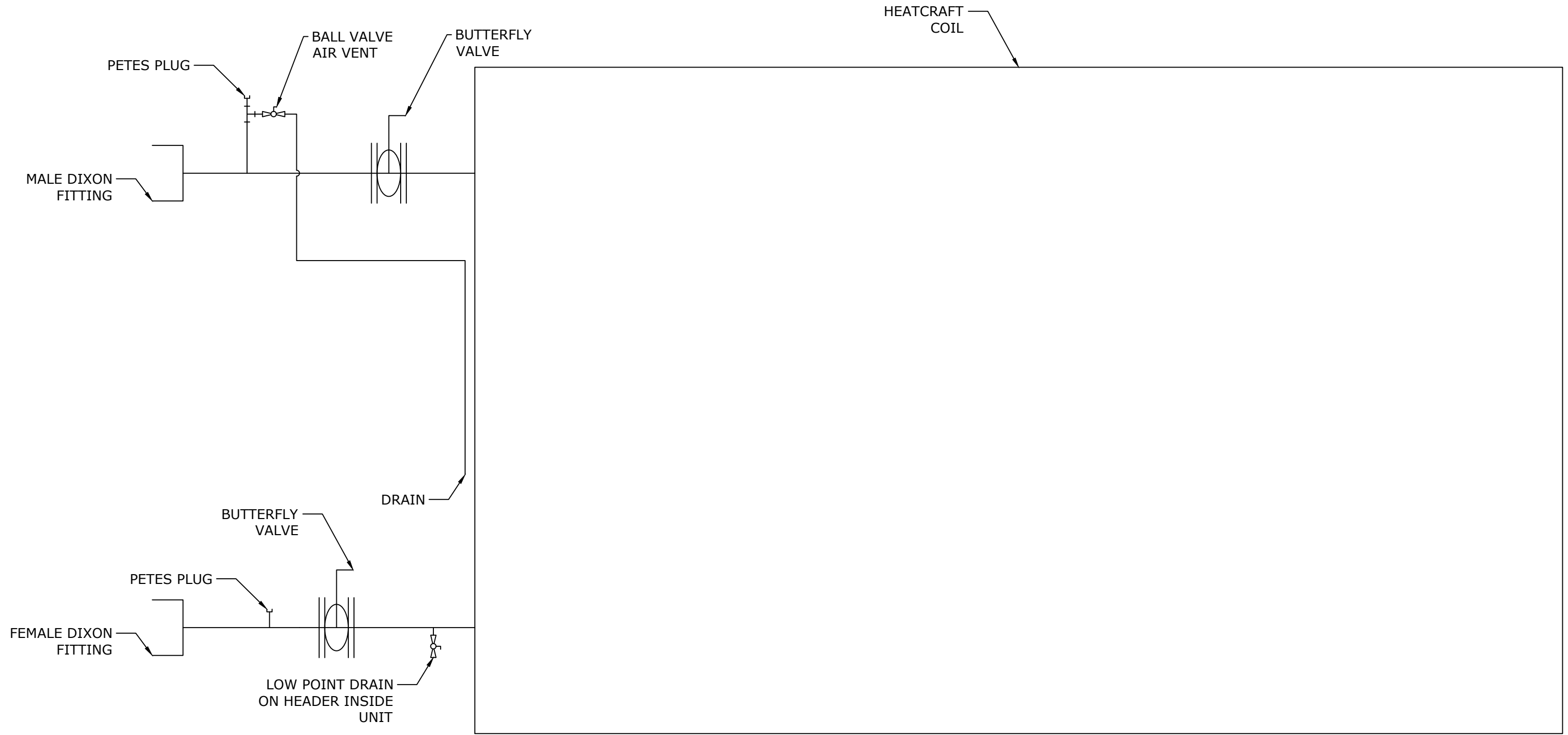
CAPS NO.: 17F-0871 DRAWING: AE2 DRAWN BY: TRUNG TRAN DATE: 12/12/2017

CUST. PO#: _____ SHEET: 2 OF 4 CHECKED BY: DAVID NGUYEN DATE: 04/27/2018

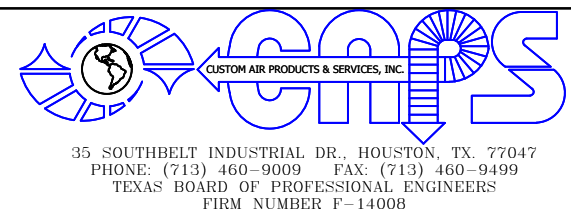
SIZE: B REV: 1 APPROVED BY: LARRY NOVAK DATE: 04/27/2018

CUSTOMER: **HERC RENTALS**

**120 TON CHILLED WATER AIR HANDLER UNIT
GALV SKID, GALV CAGE, COATED HOUSING
DUCTED RETURN, 460V/3Ø/60Hz, NEMA 4 CONSTRUCTION
ELECTRICAL DESIGN
PANEL LAYOUT**



REV#	DATE	DESIGNER	DESCRIPTION
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CUST. PO#:	SHEET: 3 OF 4	CHECKED BY: DAVID NGUYEN	DATE: 04/27/2018
SIZE: B	REV: 1	APPROVED BY: LARRY NOVAK	DATE: 04/27/2018

CUSTOMER: **HERC RENTALS**

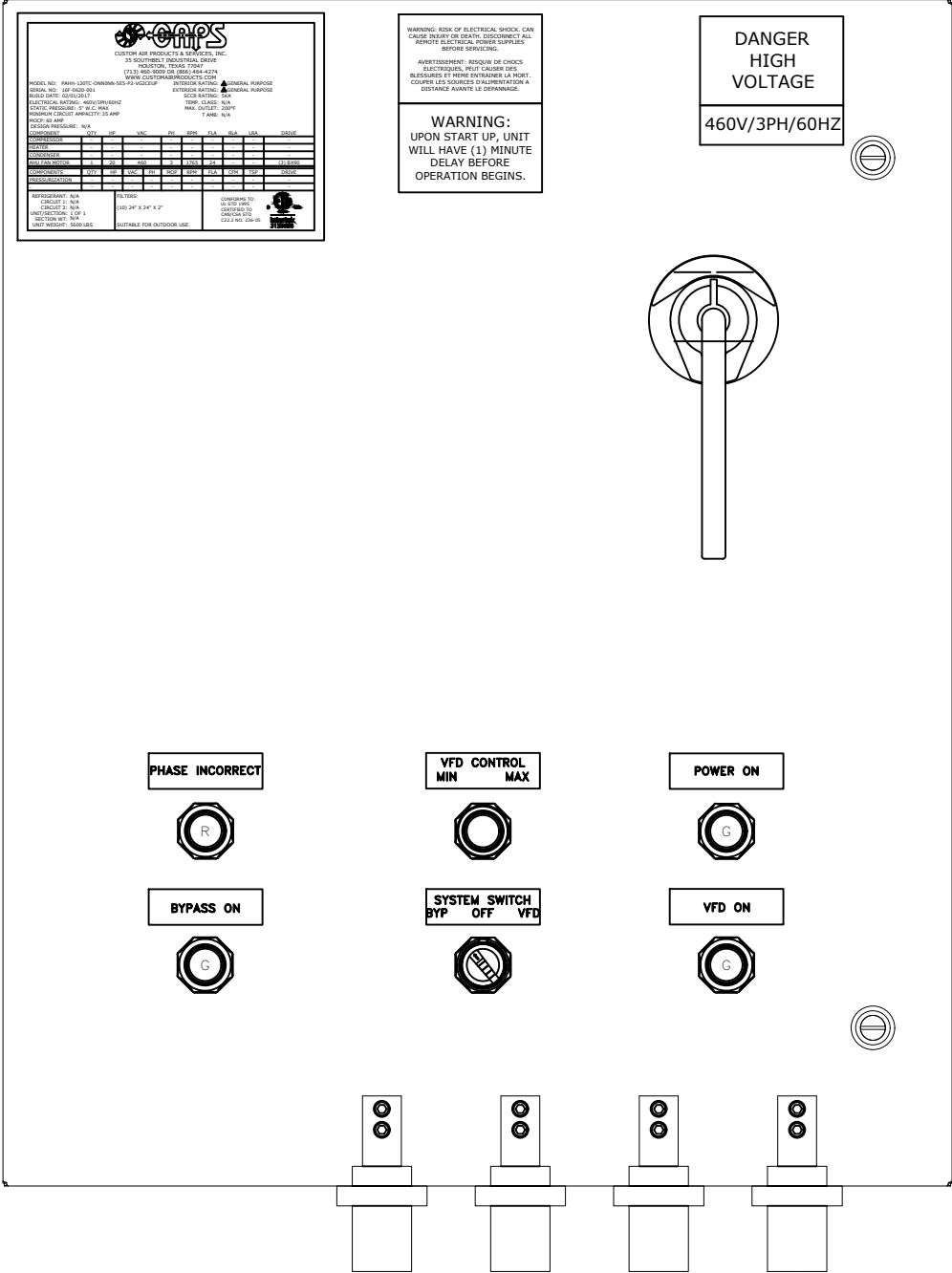
**120 TON CHILLED WATER AIR HANDLER UNIT
 GALV SKID, GALV CAGE, COATED HOUSING
 DUCTED RETURN, 460V/3Ø/60Hz, NEMA 4 CONSTRUCTION
 ELECTRICAL DESIGN
 P&ID**

SEQUENCE OF OPERATION

The system is placed into initial operation as follows:

- Turn System Switch to "OFF"
- Turn Circuit Breaker "ON"
 - If the "Phase Incorrect" light is on, turn off the circuit breaker; reverse two (2) phases of incoming power for proper phase sequencing then check the incoming power source to be sure the unit has a good power source - 460V/3P/60HZ
 - If the "Power On" light is on and the "Phase Incorrect" light is off, the unit is ready for operation
- Turn System Switch to position that you desire
 - 1- Bypass: The evaporator fan will bypass the VFD and runs at full speed. The "Bypass On" light will turn on
 - 2- VFD: "VFD On" light will turn on. The evaporator fan will be controlled by the VFD. Use the POT switch to adjust evaporator fan speed.
- Only use System Switch to turn of the unit

NOTE: UNIT DOES NOT HAVE A THERMOSTAT



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CAPS NO.: 17F-0871	DRAWING: AE4	DRAWN BY: TRUNG TRAN	DATE: 12/12/2017
CUST. PO#:	SHEET: 4 OF 4	CHECKED BY: DAVID NGUYEN	DATE: 04/27/2018
SIZE: B	REV: 1	APPROVED BY: LARRY NOVAK	DATE: 04/27/2018

CUSTOMER: **HERC RENTALS**

**120 TON CHILLED WATER AIR HANDLER UNIT
 GALV SKID, GALV CAGE, COATED HOUSING
 DUCTED RETURN, 460V/3Ø/60Hz, NEMA 4 CONSTRUCTION
 ELECTRICAL DESIGN
 SEQUENCE OF OPERATION**